

Patent Abstracts of Japan

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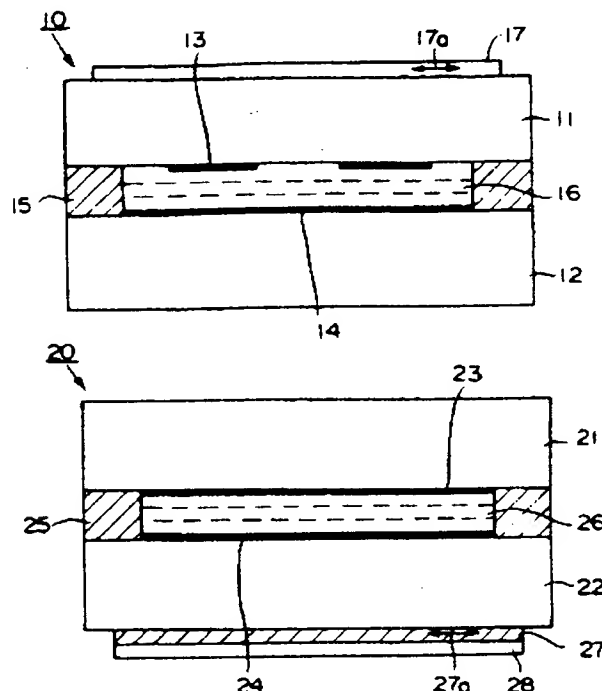
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APPLICANT : HITACHI LTD;

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TITLE : LIQUID-CRYSTAL DISPLAY DEVICE



ABSTRACT : PURPOSE: To invert the tone of a turn-on pattern instantaneously by composing a two-layer cell of two substrates each having an electrode over the entire surface and by turning on-off a voltage applied to the electrodes.

CONSTITUTION: The 1st liquid-crystal element 10 having an upper-plate electrode 13 in a prescribed pattern and a lower-plate electrode as an entire-surface electrode, and the 2nd liquid-crystal element 20 having upper-plate and lower-plate electrodes 23 and 24 as entire-surface electrodes are laminated, and to the external surfaces of the upper-plate and lower-plate substrates 11 and 22, polarizing plates 17 and 27, and a reflecting plate 28 are stuck. When the 1st liquid-crystal element 10 is turned on a the 2nd liquid-crystal element is turned off, liquid crystal corresponding to the turn-on pattern of the upper electrode 13 of the 1st liquid-crystal element 10 is disabled to flash, the turn-on pattern is displayed as a dark part and a background part around the turn-on pattern is displayed as a bright part. When both the elements 10 and 20 are both turned on, the turn-on pattern is bright and the background is dark. Thus, the 2nd element is turned on-off corresponding to the daytime and nighttime to obtain easy-to-see display.

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Antérieurement totalement le mode de réalisation
correspondant à la figure 3. (PL₁ // PL₂ * cadran clair)
... sauf à prétendre que le réflecteur 28 et un
cadran clair ne sont pas des moyens équivalents